

## HYAL1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	LUCA1;Hyaluronoglucosaminidase-1;HYAL1;LuCa-1;Hyal-1;Hyaluronidase-1;Lung Carcinoma Protein 1
Protein Construction:	Phe22-Trp435
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q12794
Molecular Weight:	50-65 KDa (reducing condition)
AA Sequence:	Phe22-Trp435

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 7.5.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Hyaluronidase-1 (HYAL1) is a secreted lysosomal hyaluronidase that belongs to the glycosyl hydrolase 56 family. HYAL1 contains one EGF-like domain and is highly expressed in the liver, kidney, and heart, but it is weakly expressed in the lung, placenta, and skeletal muscle. HYAL1 is thought to be involved in cell proliferation, migration, and differentiation. It may play a role in promoting tumor progression and blocking the TGFβ1-enhanced cell growth. Mutations in HYAL1 are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency.

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